

IN THE CLAIMS:

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1. (Currently Cancelled)
 2. (Currently Cancelled)
 3. (Currently Cancelled)
 4. (Currently Cancelled)
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 6. (Currently Cancelled)
 7. (Currently Cancelled)
 8. (Currently Cancelled)
 9. (Currently Cancelled)
 10. (Currently Cancelled)
 11. (Currently Cancelled)
 12. (Currently Cancelled)
 13. (Currently Cancelled)
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14. (Currently Amended) An electronic imaging system comprising:
a solid-state image sensor having a two-dimensional array of pixels capable of
converting light incident thereon to electric signal, the pixels being arranged in a plurality of
horizontal lines, the lines being arranged vertically one under another;
a color filter arranged on an incident plane of the solid-state image sensor having a
line sequential primary color mosaic pattern; and
control means for selectively controlling a mode for sequential scan reading out pixel
signals concerning the whole pixels of the solid-state image sensor for still picture recording,
and a mode for reading out pixel signal sums by utilizing a plurality of vertical registers each
of n ($n \geq 2$, n being an integer) lines among m ($m \geq 3$, m being an integer) lines in k ($k \geq 6$, k
being an integer) continuous lines of the solid-state image sensor with L ($L > k$) said
horizontal lines for said still picture recording or dynamic image processing.

15. (Currently Amended) An electronic imaging system comprising:
a solid-state image sensor having a two-dimensional array of pixels capable of
converting light incident thereon to electric signal, the pixels being arranged in a plurality of
horizontal lines, the lines being arranged vertically one under another;

a color filter arranged on an incident plane of the solid-state image sensor having a line sequential primary color mosaic pattern; and

control means for selectively controlling a mode for sequential scan reading out pixel signals concerning the whole pixels of the solid-state image sensor for still picture recording, a mode for reading out pixel signal sums by utilizing a plurality of vertical registers each of n ($n \geq 2$, n being an integer) lines among m ($m \geq 3$, m being an integer) lines of the solid-state image sensor for said still picture recording or dynamic image processing, and a mode for reading out pixel signal sums by utilizing a plurality of vertical registers of n lines among m lines in k ($k \geq 6$, k being an integer) partially continuous lines of the solid-state image sensor for said still picture recording or said dynamic image processing.

16. (Currently Amended) The electronic imaging system as set forth in claim 14 or 15, ~~in which~~ wherein the control means controls a mode of reading a plurality of k line blocks each of k lines in the whole lines for said still picture recording or dynamic image processing.

17. (Currently Amended) The electronic imaging system as set forth in claim 14, ~~or 15 or 16 in which~~ wherein image data obtained by reading out said pixel signal sums said each of n lines among m vertically continuous lines for said still picture recording or said dynamic image processing, is such that its color signal is line sequential data.

18. (Previously Cancelled)

19. (Currently Amended) The electronic imaging system as set forth in claim 14, ~~or 15 or 16, in which~~ wherein the n lines for addition are constituted by the same color filter.

20. (Currently Amended) The electronic imaging system as set forth in claim 14, ~~or 15 or 16, in which~~ wherein the n addition lines are constituted by the same color filter, and different n line addition filters are provided for every said m lines.

21. (Currently Amended) The electronic imaging system as set forth in claim 19, ~~in which~~ wherein $m = 2a + 1$ (a being a positive integer).

22. (Currently Amended) The electronic imaging system as set forth in claim 14, ~~or 15 or 16, in which~~ wherein dynamic image processed signal obtained in either of the modes is used for AF, AE or AWB control data.

23. (Currently Amended) The electronic imaging system as set forth in claim 14, ~~or 15 or 16, in which~~ wherein dynamic image processed signal obtained in either of the modes is used as AF, AE or AWB control data, and the AF, AE or AWB control data is calculated sequentially each in each frame.

24. (Currently Amended) The electronic imaging system as set forth in claim 15, ~~in which~~ wherein the control means selects a mode of reading out pixel signal sums each of n lines among m vertically continuous lines when obtaining dynamic image processed signal to be displayed on a display provided in, the system to be supplied to an external display provided outside the system or to be used as AE or AWB control data, and the control means selects a mode of reading out pixel signals of n lines among every m vertically continuous lines in k partially continuous lines when obtaining dynamic image processed signal to be used as AF or AE control data.

25. (Currently Cancelled)

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38. (Currently Amended) An electronic imaging system comprising:

a solid-state image sensor having a two-dimensional array of pixels capable of converting light incident thereon to electrical signals, the pixels being arranged in a plurality of horizontal lines, the lines being arranged vertically one under another;

a color filter arranged on a incident plane of the solid-state image sensor having a line sequential primary color mosaic pattern; and

control means for selectively controlling a mode for sequential scan reading out pixel signal concerning the whole pixels of the solid-state image sensor for still picture recording and a mode for reading out pixel signal sums of n lines out of every m lines within partially continuous k lines of the solid-state image sensor with L (L > k) said horizontal lines by utilizing a plurality ~~of~~ of vertical registers for still picture recording or dynamic image processing, wherein

$n \geq 2$, n being an even number,

$m \geq n+1$, m being an odd number,

$k \geq 2m$, k being an integer.

39. (Currently Amended) A controller for reading out color image signal from a destructive read-out type imager with a primary color Bayer filter, said controller comprising:

a mode selector unit configured to select one of plural read-out modes according to usage of said color image signal read from the imager, said read-out modes including:

(a) a mode for reading out gamut of the imager for use with recording a still picture;

(b) a mode for reading out with ~~eliminating every third line and summing every line pair~~ summing every first and third lines of three to be read-out within the gamut of the imager for use with controlling AE and AWB function; and

(c) a mode for reading out with eliminating every third line and summing every line pair to be read-out within partial imaging area of the imager for use with controlling AF function.

40. (Currently Amended) A method of reading out color image signal from a destructive read-out type imager with a primary color Bayer filter, comprising [the steps of]:

selecting one of plural read-out modes according to usage of said color image signal read out from the imager, said read-out modes including:

(a) a mode for reading out gamut of the imager for use with recording a still picture;

(b) a mode for reading out with ~~eliminating every third line and summing every line pair~~ summing every first and third lines of three to be read-out within gamut of the imager for use with controlling AE and AWB function; and

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cancel (c) a mode for reading out with eliminating every third line and summing every line pair to be read-out within partial imaging area of the imager for use with controlling AF function.
